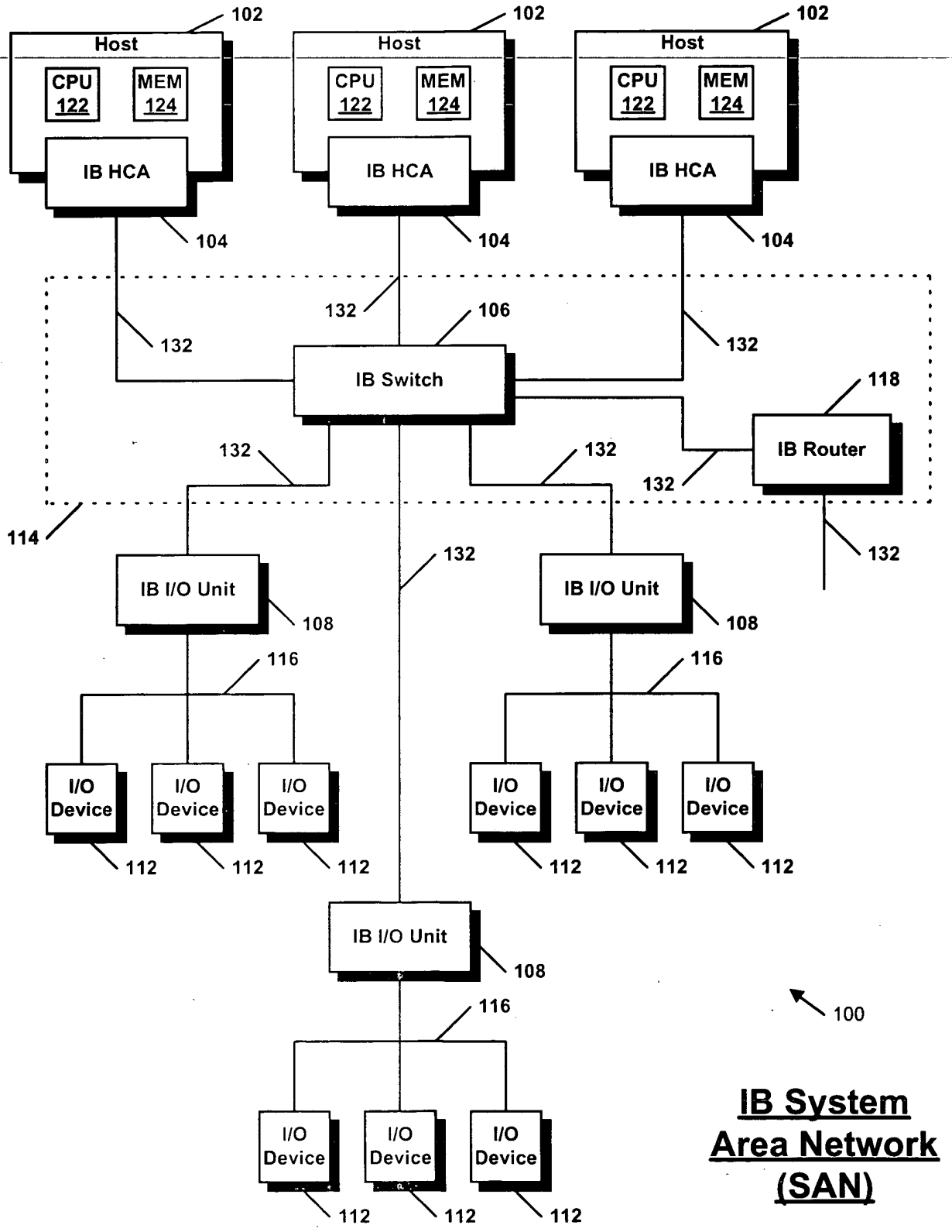
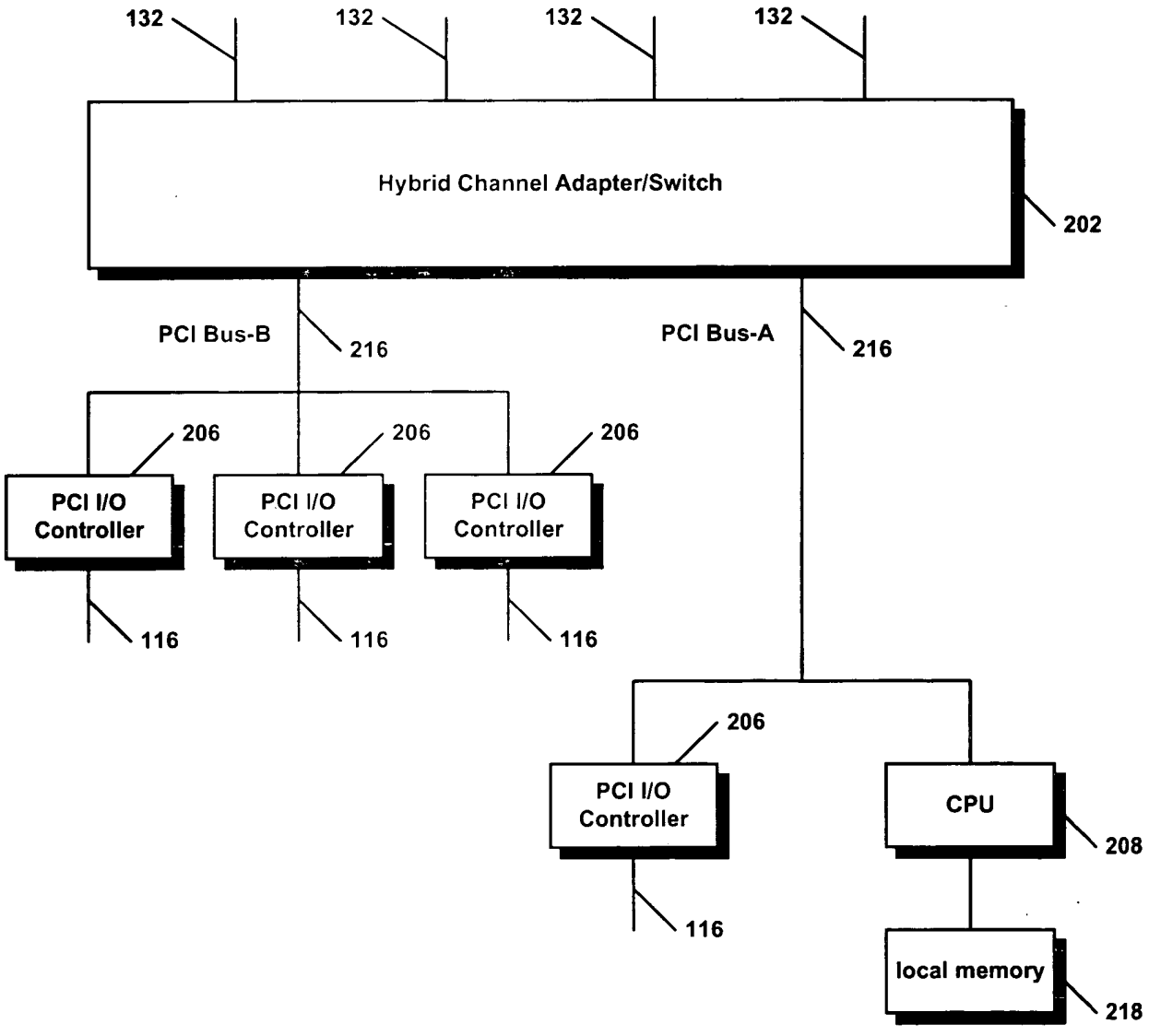
FIG. 1



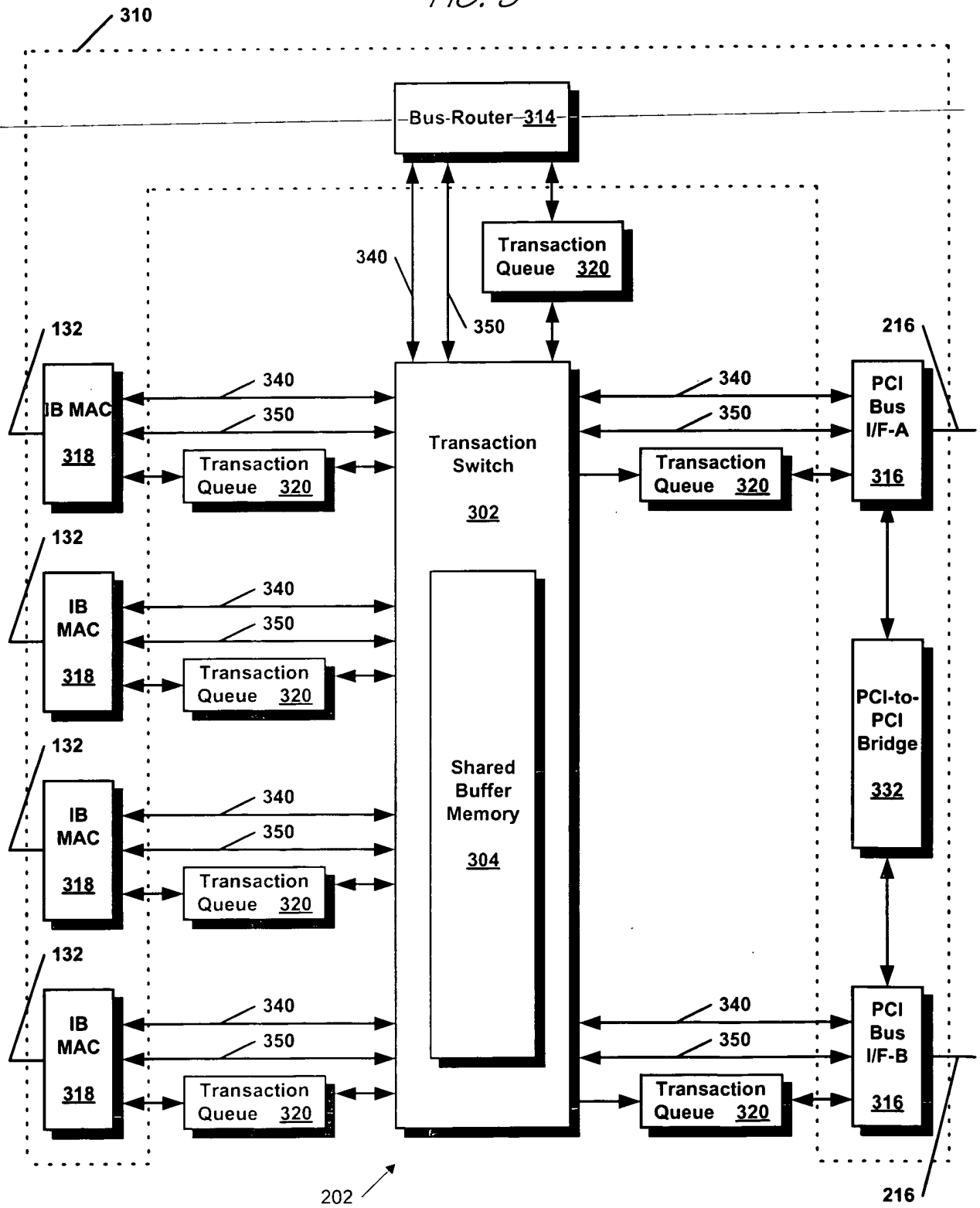
IB System Area Network (SAN)

FIG. 2



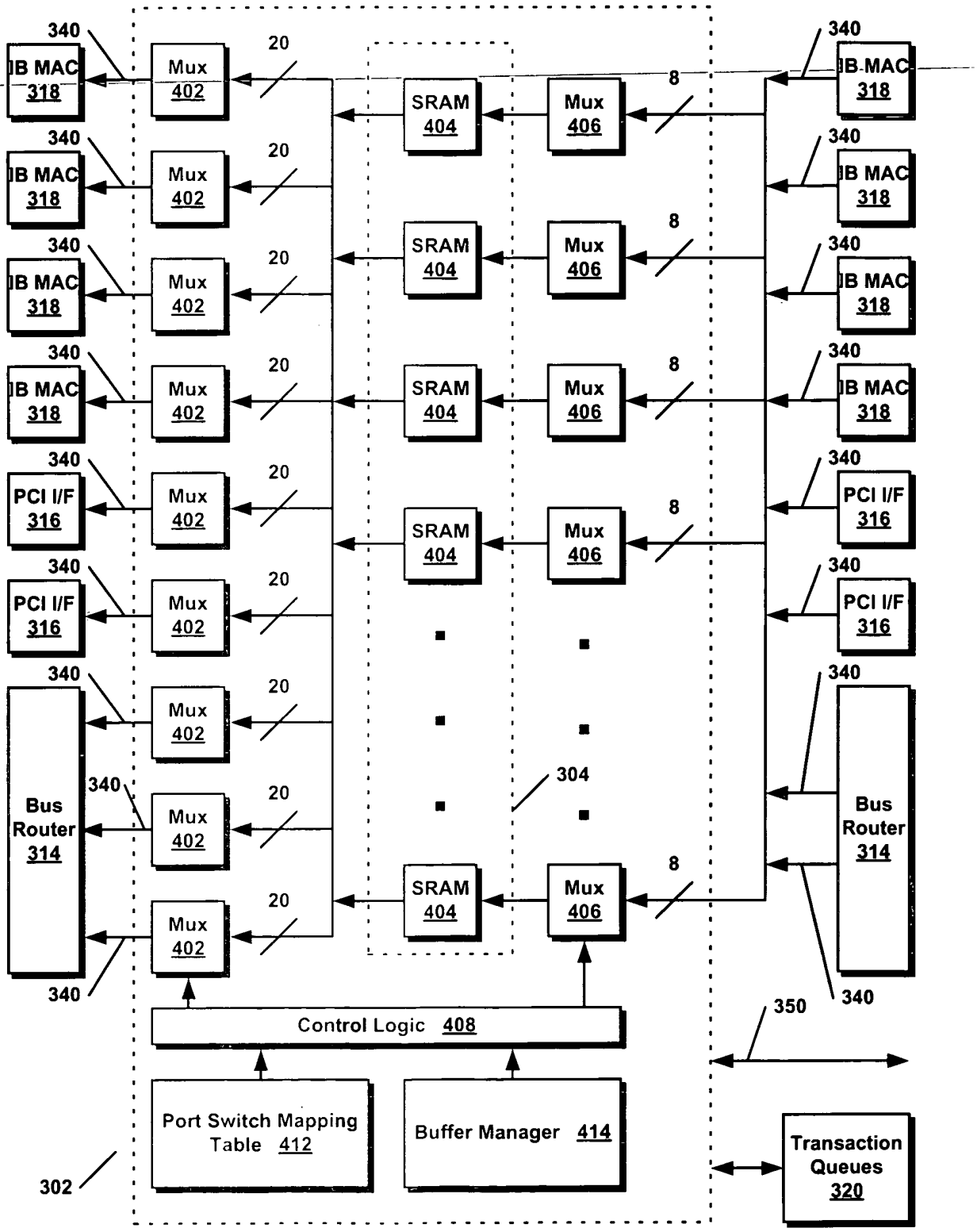
IB Hybrid Channel Adapter/Switch

FIG. 3



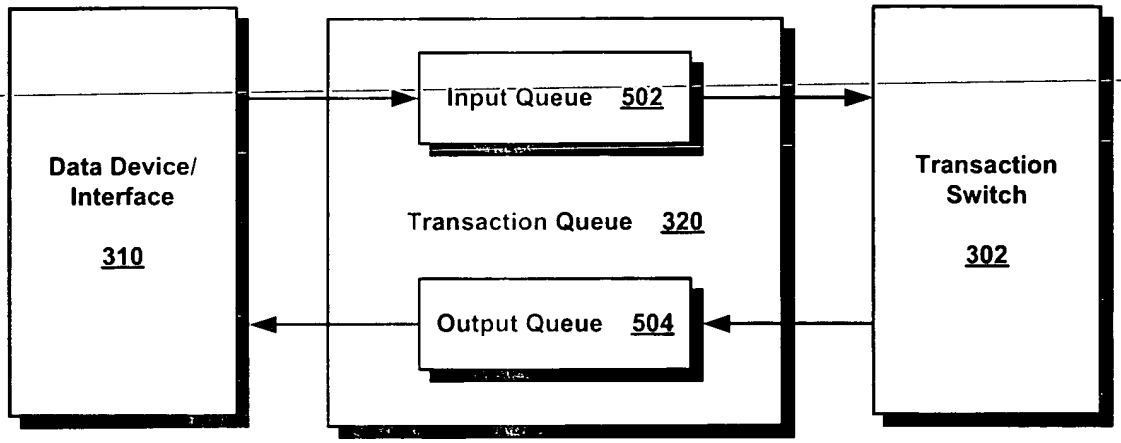
IB Hybrid CA/Switch with Transaction Switch and Shared Buffer Memory

FIG. 4



Transaction Switch Data Paths

FIG. 5



Transaction Queues

FIG. 6

DLID 602	Frame Error 604	LNH 606	Destination QP 608	Packet Length 612	VL 614	Buffer Address 616

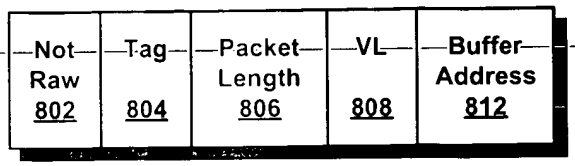
MAC Input Queue Entry 600

FIG. 7

Tag 702	PCI Address/Port 704	Length 706	Offset 708	VL 712	Type 714	Buffer Address 716

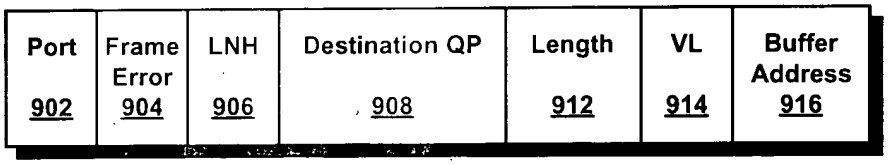
Bus Router Input Queue Entry 700

FIG. 8



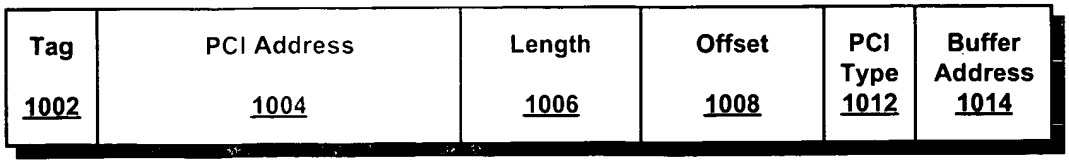
MAC Output Queue Entry 800

FIG. 9



Bus Router Output Queue Entry 900

FIG. 10

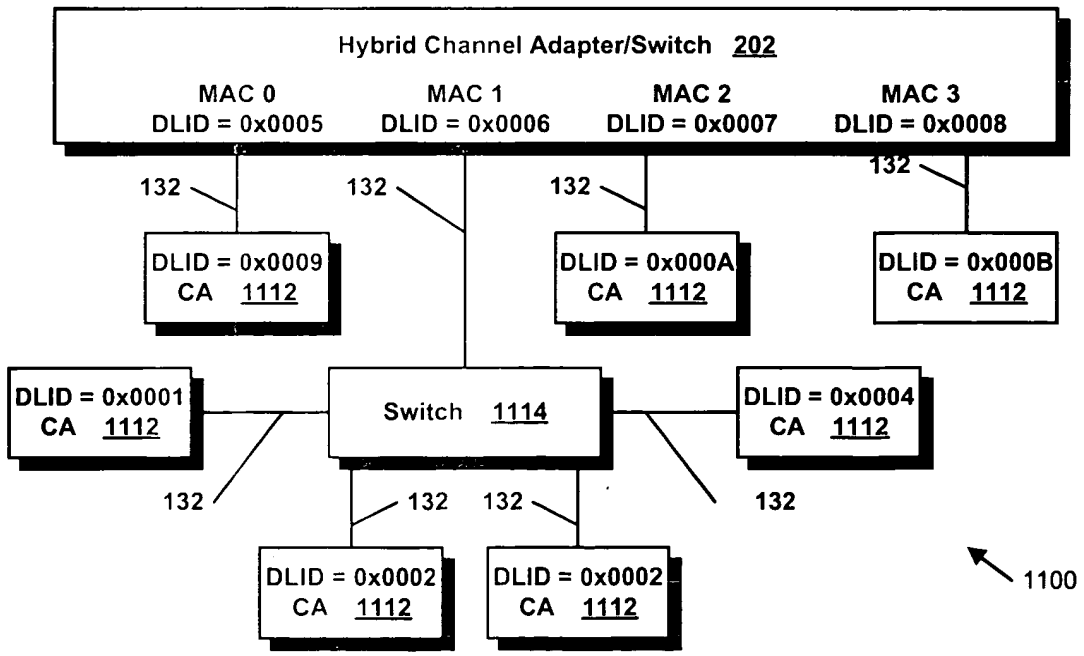


PCI Output Queue Entry 1000

FIG. 11

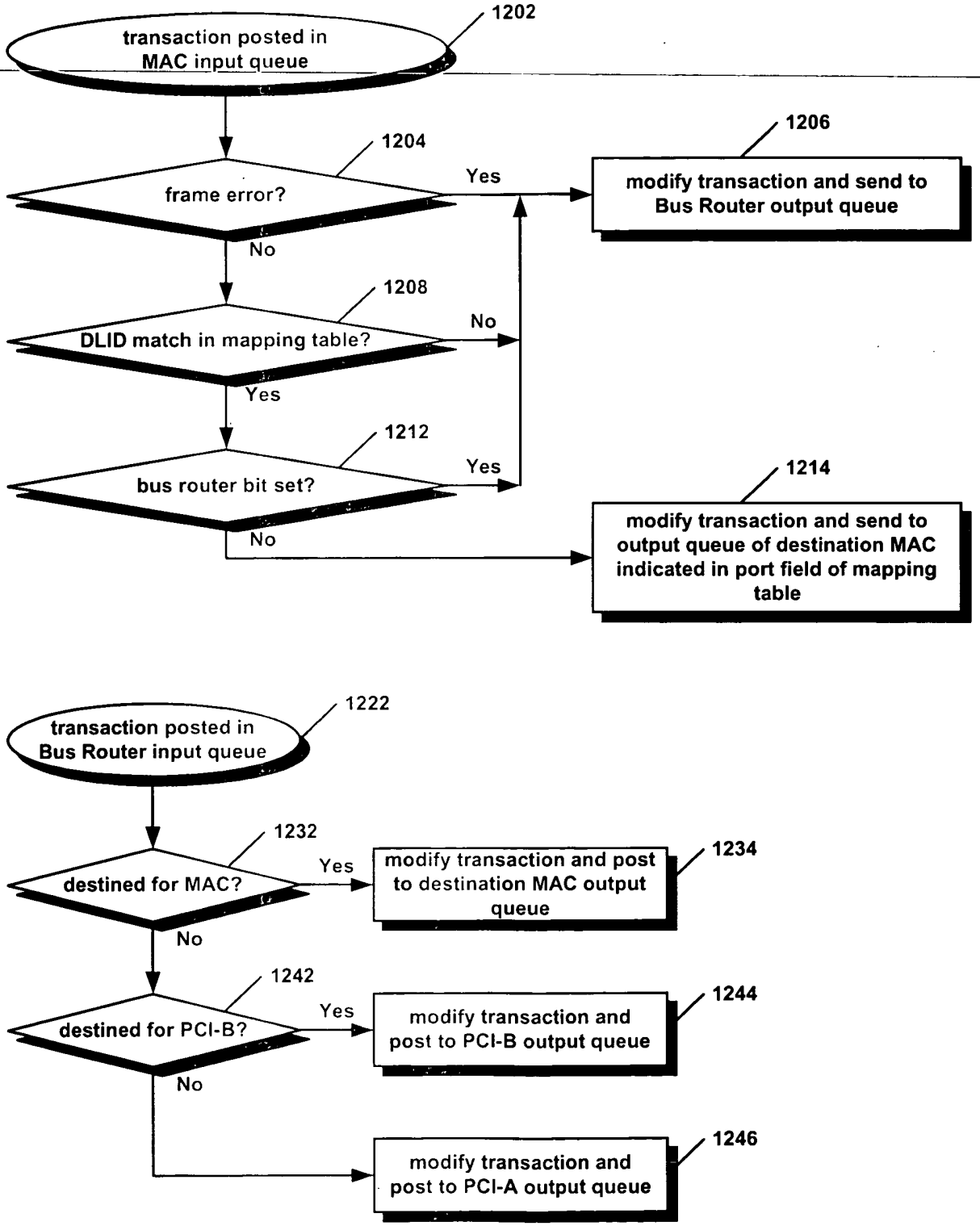
	Bus Router 1102	Port 1104	DLID 1106	Valid 1108
0	1	0	0x0005	1
1	1	1	0x0006	1
2	1	2	0x0007	1
3	1	3	0x0008	1
4	0	1	0x0001	1
5	0	1	0x0002	1
6	0	1	0x0003	1
7	0	1	0x0004	1
8	0	0	0x0009	1
9	0	2	0x000A	1
10	0	3	0x000B	1
11	0	2	-	0
12	0	1	-	0
13	0	3	-	0
14	0	2	-	0
15	0	2	0x0007	1

412



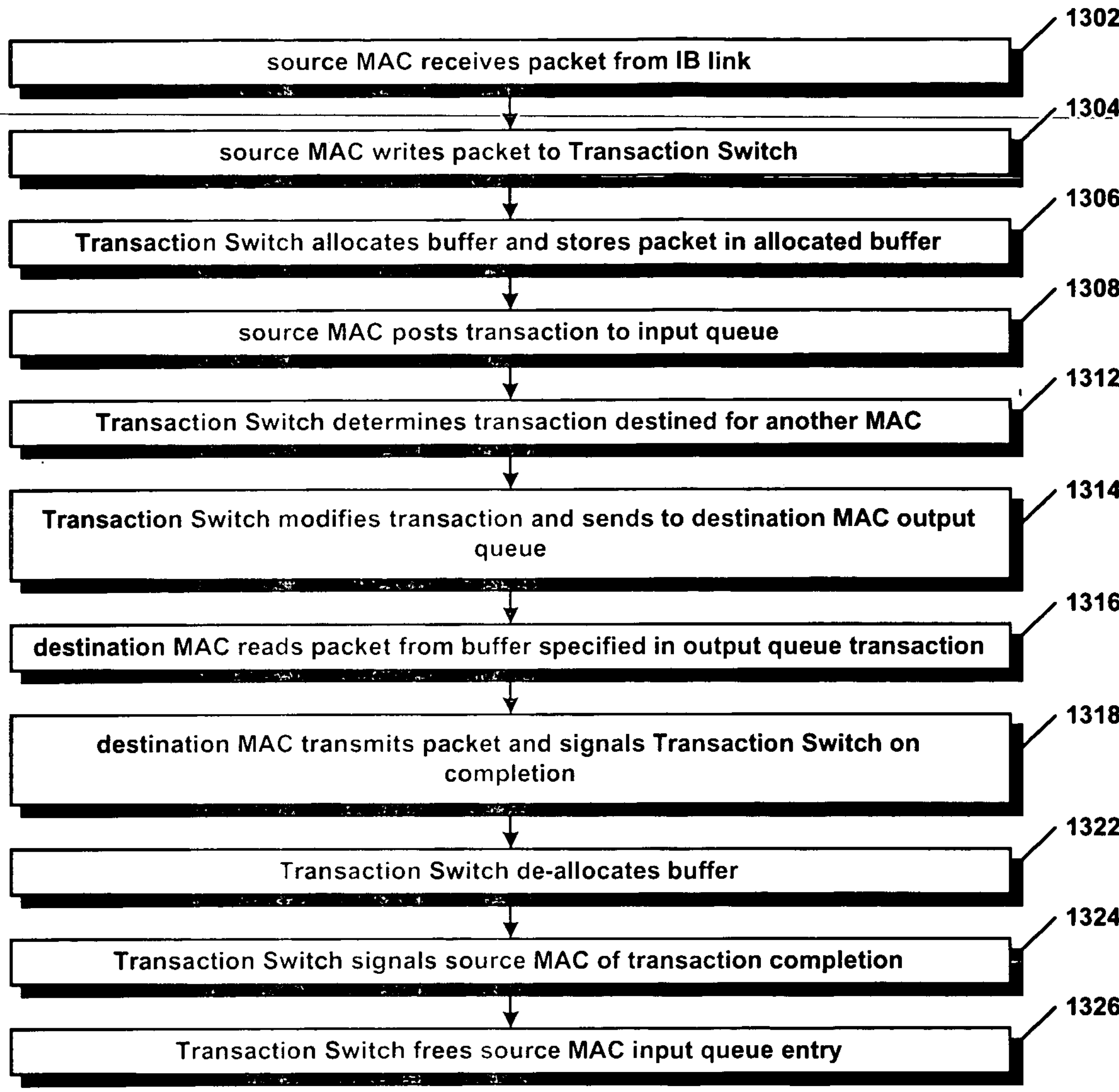
Port Switch Mapping Table in Example Network

FIG. 12



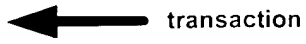
Transaction Switching

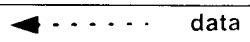
FIG. 13a

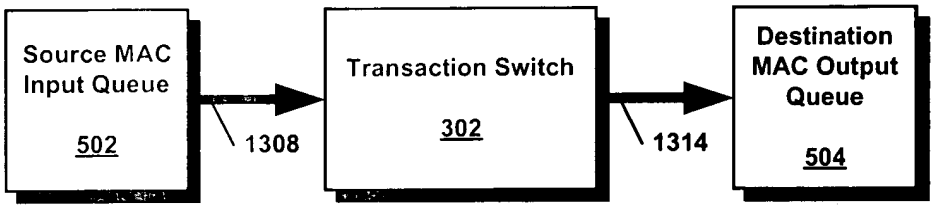


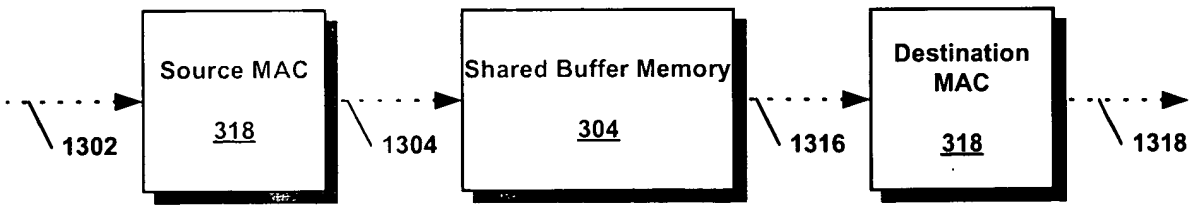
Packet Switching Operation

FIG. 13b



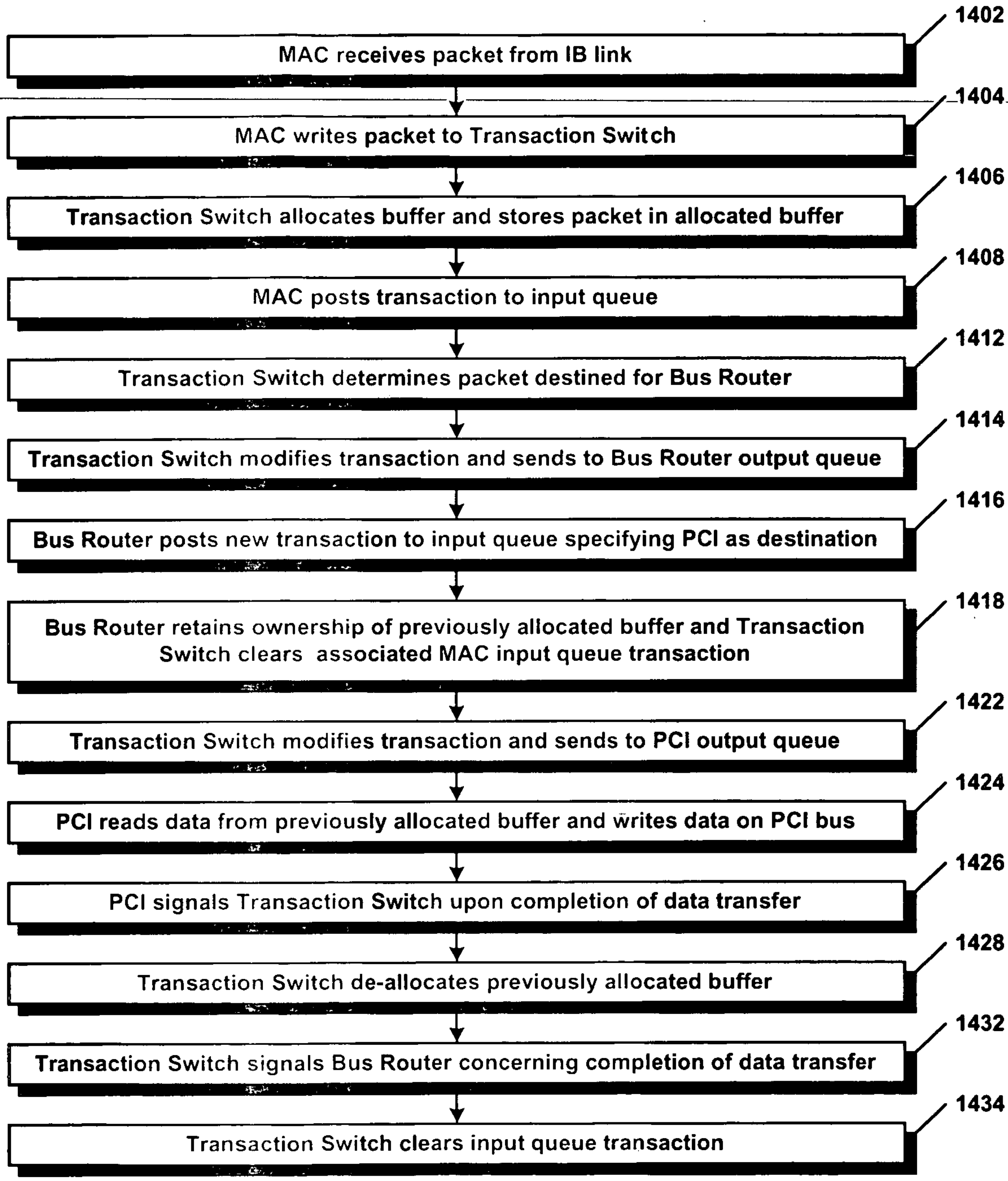






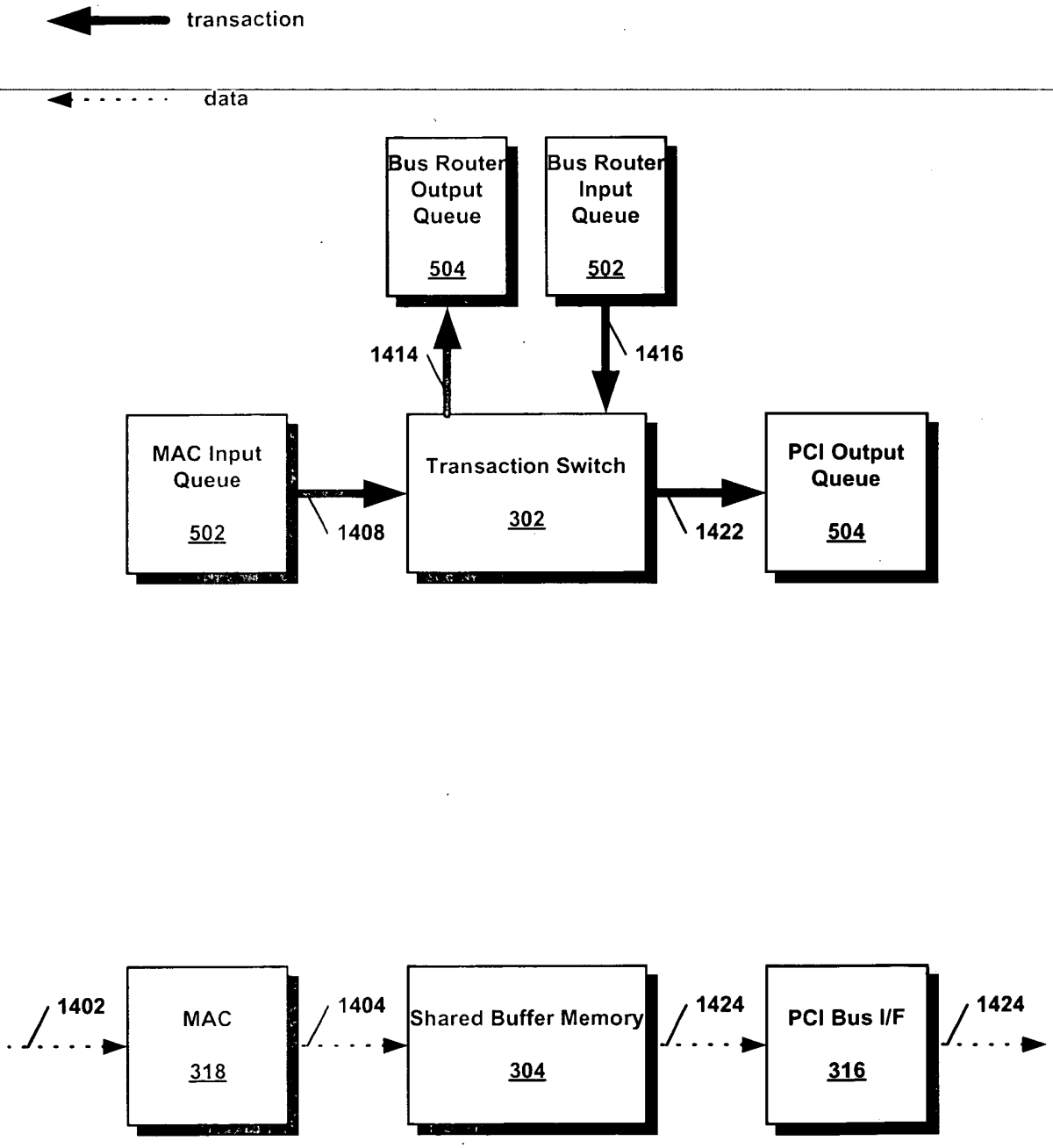
Packet Switching Operation

FIG. 14a



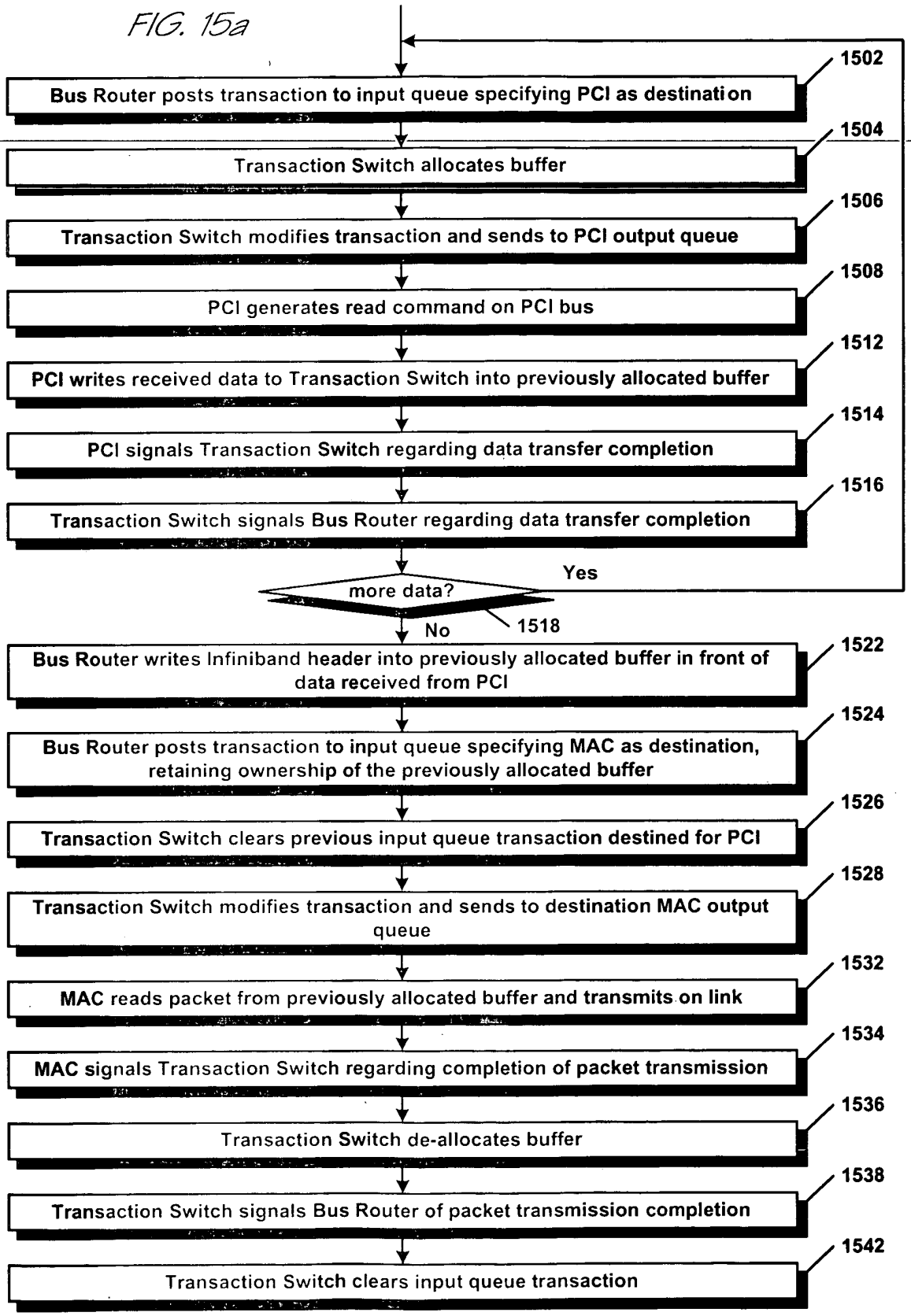
Packetized Data to Addressed Data Operation

FIG. 14b



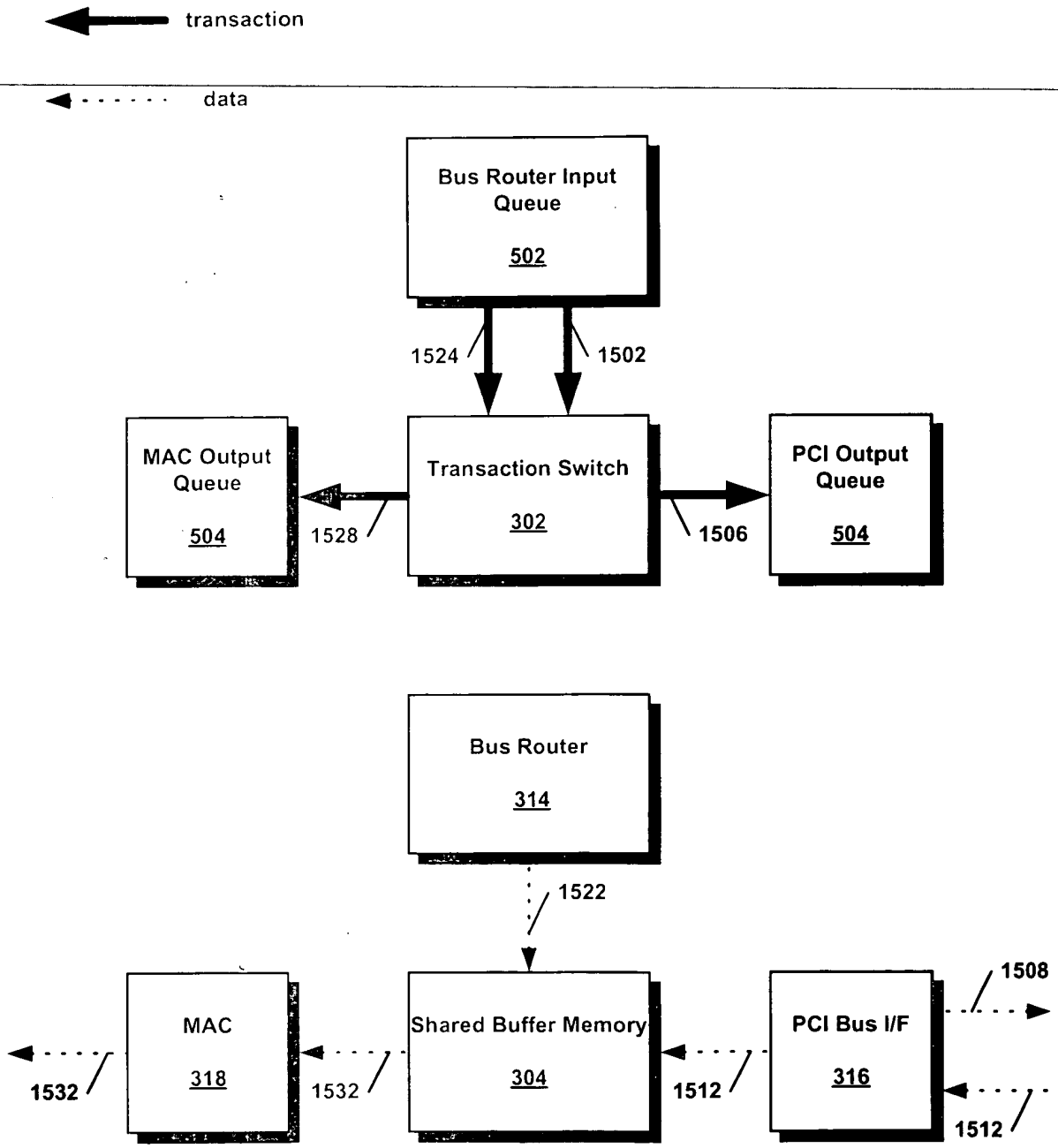
Packetized Data to Addressed Data Operation

FIG. 15a



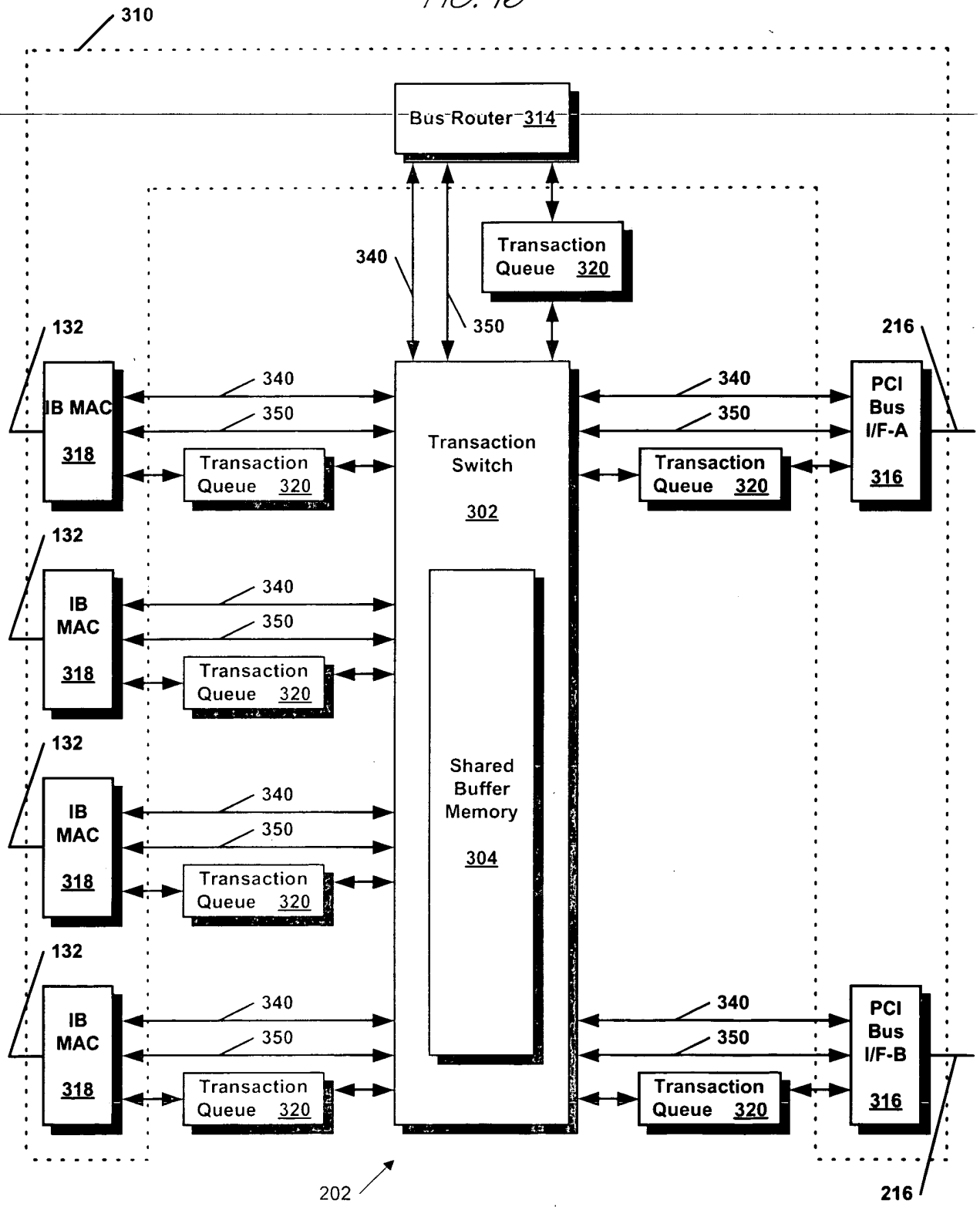
Addressed Data to Packetized Data Operation

FIG. 15b



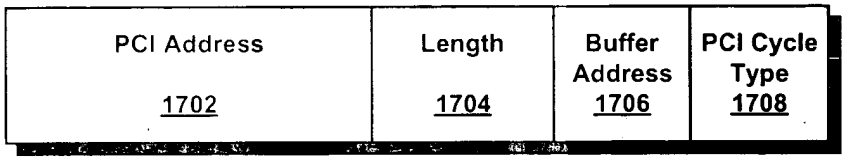
Addressed Data to Packetized Data Operation

FIG. 16



IB Hybrid CA/Switch with Transaction Switch and Shared Buffer Memory

FIG. 17

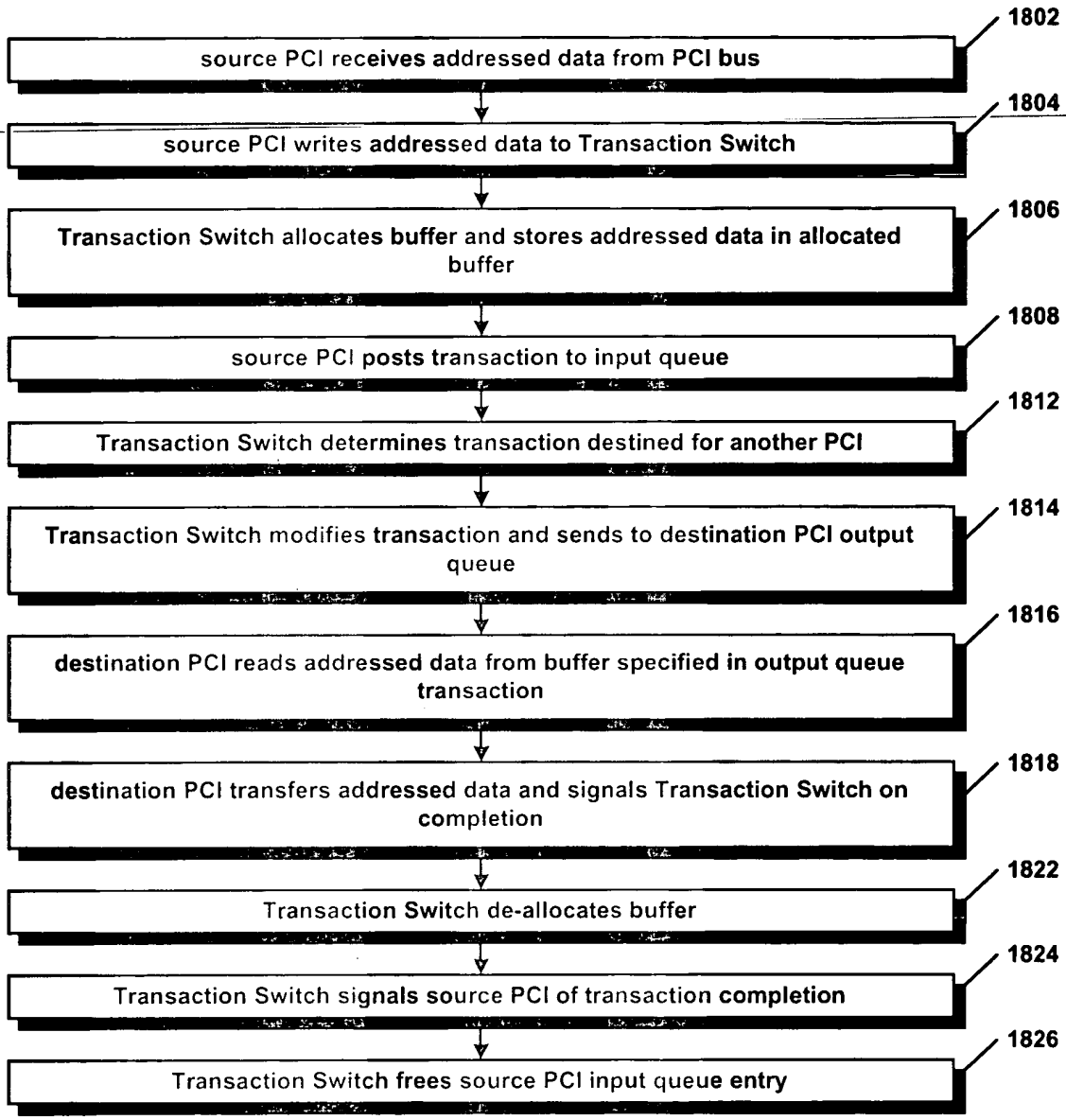


1700

PCI Input Queue Entry

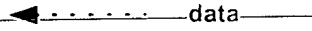
Docket: 6656/1650

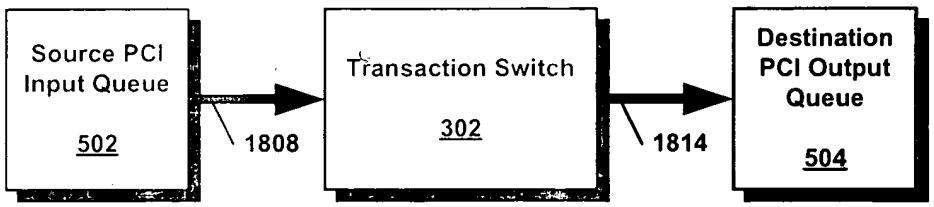
FIG. 18a

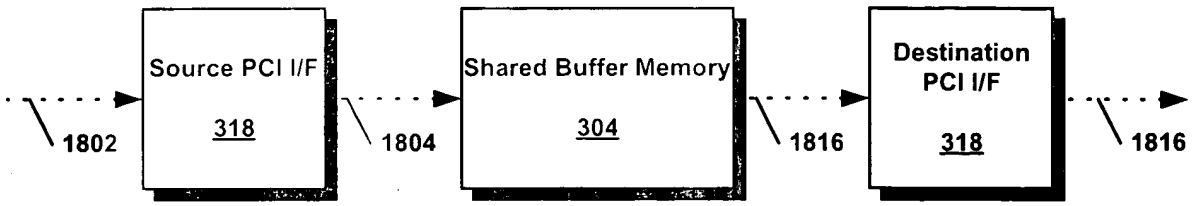


Addressed Data Switching Operation

FIG. 18b







Addressed Data Switching Operation